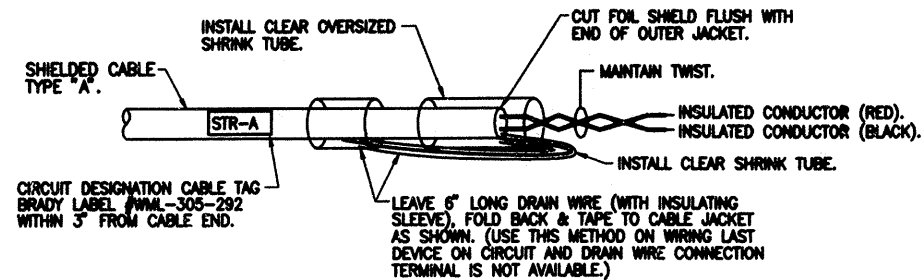


**TYPICAL SHIELD/DRAIN INSULATING METHOD "A"**  
N.T.S.



**TYPICAL SHIELD/DRAIN INSULATING METHOD "B"**  
N.T.S.

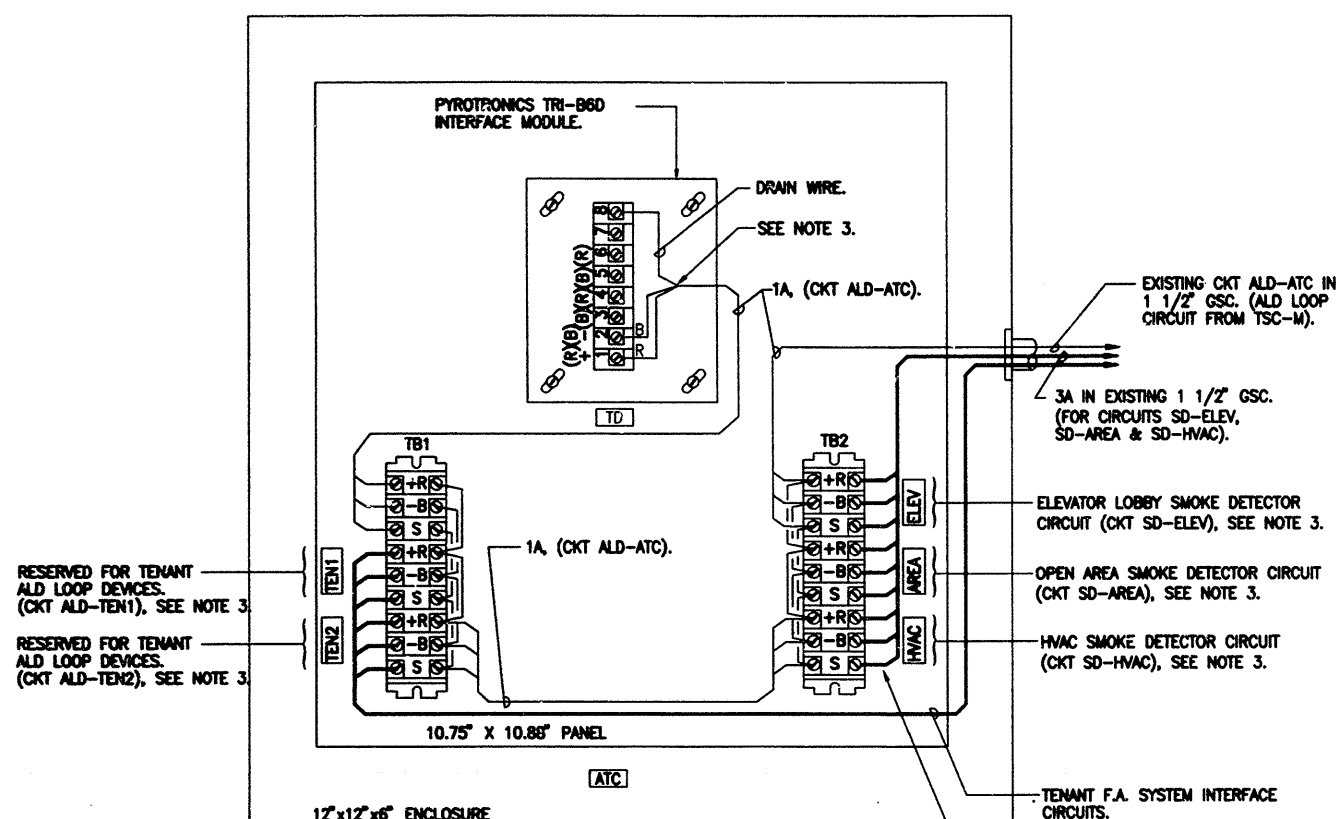
**NOTES:**

1. FOR LEGEND/SPECIFICATION, CIRCUIT LEGEND, TERMINATION LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING E-1.
2. WIRING DIAGRAMS SHOWN ARE SCHEMATIC REPRESENTATIONS FOR CONNECTIONS ONLY. FOR DEVICE INSTALLATION, REFER TO INSTALLATION DETAILS ON DRAWING E-2.
3. INSULATE SHIELD & DRAIN WIRE AS SHOWN ON TYPICAL SHIELD/DRAIN INSULATING METHOD.
4. SHIELD MUST BE CONTINUOUS AND INSULATED FROM BOXES, CONDUITS, ETC.

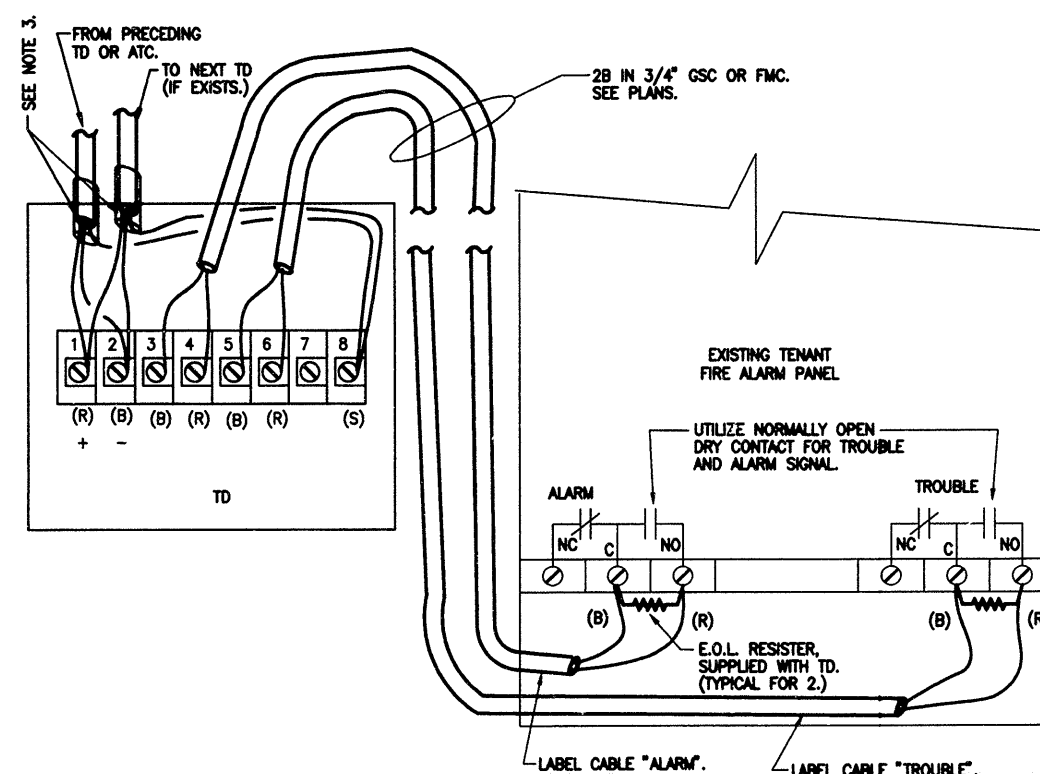
Sheet 5 of 75

**THE PORT AUTHORITY**  
OF NEW YORK AND NEW JERSEY

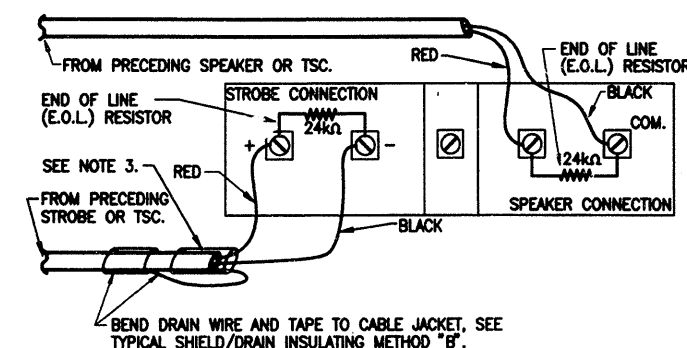
*[Signature]*  
ENGINEERING PROGRAM MANAGER  
WORLD TRADE CENTER  
CHIEF ELECTRICAL ENGINEER



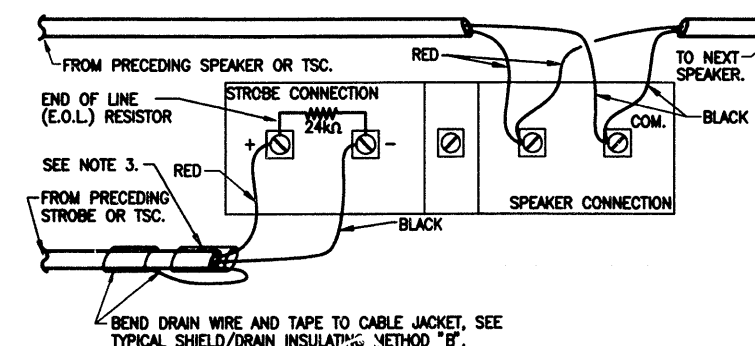
**ATC CABINET  
BLOCK WIRING DIAGRAM**  
N.T.S.



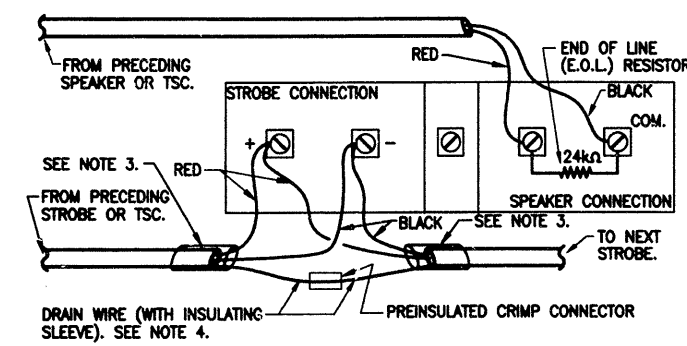
**TYPICAL TD WIRING DIAGRAM OF TENANT F.A. SYSTEM INTERFACE**  
N.T.S.



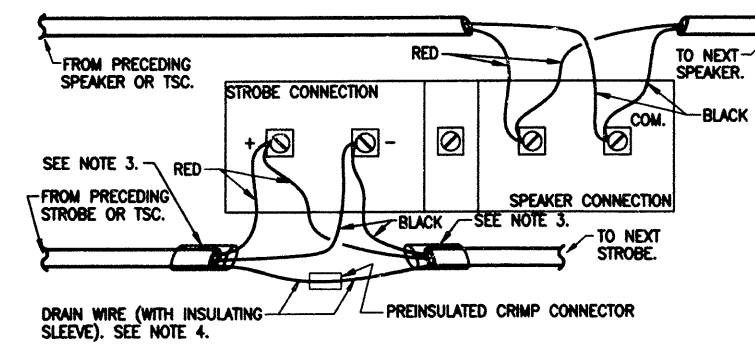
**(FOR END OF LINE STROBES AND END OF LINE SPEAKERS)**



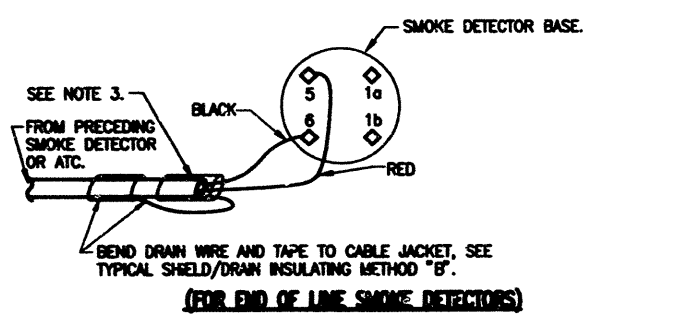
**(FOR END OF LINE STROBES AND ALL SPEAKERS EXCLUDING END OF LINE SPEAKERS)**



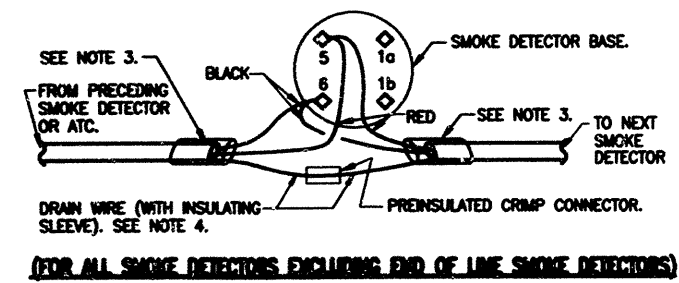
**(FOR ALL STROBES EXCLUDING END OF LINE STROBES AND END OF LINE SPEAKERS)**



**TYPICAL STROBE/SPEAKER COMBINATION UNIT WIRING DIAGRAM**  
N.T.S.

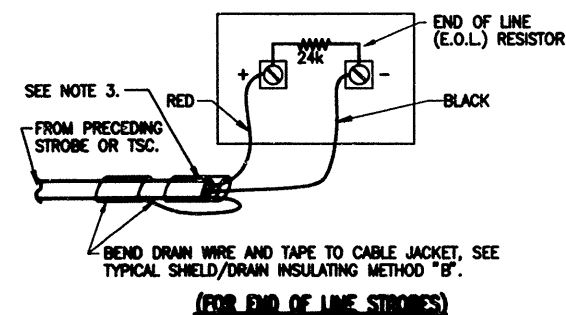


**(FOR END OF LINE SMOKE DETECTORS)**

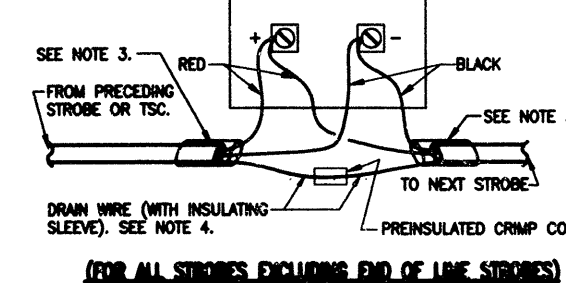


**(FOR ALL SMOKE DETECTORS EXCLUDING END OF LINE SMOKE DETECTORS)**

**TYPICAL SMOKE DETECTOR WIRING DIAGRAM**  
N.T.S.

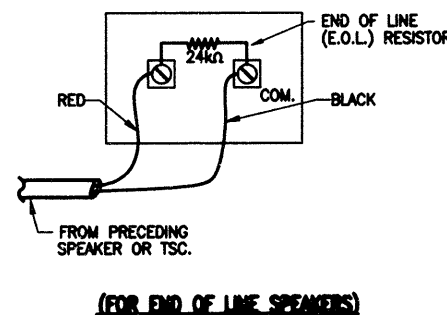


**(FOR END OF LINE STROBES)**

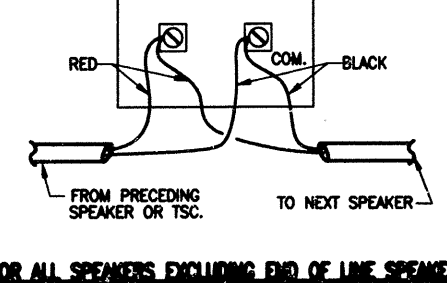


**(FOR ALL STROBES EXCLUDING END OF LINE STROBES)**

**TYPICAL STROBE WIRING DIAGRAM**  
N.T.S.



**(FOR END OF LINE SPEAKERS)**



**(FOR ALL SPEAKERS EXCLUDING END OF LINE SPEAKERS)**

**TYPICAL SPEAKER WIRING DIAGRAM**  
N.T.S.

1 8/23/99 AS-BID  
No. Date Revision Approved

**ENGINEERING DEPARTMENT  
DESIGN DIVISION**

**WORLD  
TRADE  
CENTER**

**ELECTRICAL**

**FIRE ALARM SYSTEM  
DEVICE UPGRADE  
PHASE III  
1 WORLD TRADE CENTER  
CONTRACT NO. 3**

**FIRE ALARM DEVICE  
WIRING DIAGRAMS  
AND SHIELD/DRAIN  
INSULATION DETAIL**

This drawing subject to conditions in Contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

S.FELDMAN R.DUKESWIRE A.S.  
Designed by Drawn by Checked by

AUGUST 9, 1999  
Date

WTC-861.176 E-3  
Contract Number Drawing Number